

# GUIDE SPECIFICATIONS FOR SERIES 600 MODEL 620 OPERABLE WALLS

## PART 1 GENERAL

### 1.1 SCOPE

1.1.1 The requirements of the instructions to Bidders, General Conditions, Supplementary General Conditions and Section apply to all work hereinafter specified.

1.1.2 This section shall include the furnishing of all tools, equipment and labor necessary to complete all operable wall work shown on drawings and/or herein specified.

1.1.3 Manufacturer shall furnish operable walls complete with hardware, jambs and all necessary mechanisms to provide complete operation. The operable walls hereinafter specified shall be installed by qualified factory trained craftsmen skilled in this trade.

### 1.2 RELATED WORK SPECIFIED ELSEWHERE

1.2.1 Section 03300 Cast-in-Place Concrete

1.2.2 Section 04200 Unit Masonry

1.2.3 Section 05100 Structural Metal Framing

1.2.4 Section 06100 Rough Carpentry

1.2.5 Section 06200 Finish Carpentry

1.2.6 Section 07920 Sealant and Caulking

1.2.7 Section 09250 Gypsum Board

1.2.8 Section 09300 Finish Ceilings

1.2.9 Section 09500 Acoustical Treatment

1.2.10 Section 09650 Finish Flooring

1.2.11 Section 09680 Carpet

1.2.12 Section 09900 Painting

1.2.13 Section 09950 Wall Coverings

### 1.3 REFERENCES

1.3.1 American Society for Testing and Materials (ASTM) E90-90 Laboratory Measurement of Airborne-Sound Transmission Loss of Building Partitions.

1.3.2 American Society for Testing and Materials (ASTM) E557-93 Recommended Practice for the application and installation of operable walls.

### 1.4 SUBMITTALS

1.4.1 One sample of each color material to be used on the project.

1.4.2 Copies of properly identified manufacturer's literature with proposed catalog numbers identified. Complete shop drawings showing elevations of units, locations in the buildings, conditions at openings with wall thickness and materials, typical and special details of construction, location and installation requirements for hardware and operators, shape and thickness of materials, joints and connections and material finishes.

### 1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

1.5.1 Deliver materials to job site and protect unsealed materials from abrasions.

1.5.2 Identify each container with material name and identification number. Store materials under cover, protected from weather and construction activities. Safe storage of materials prior to installation is to be the responsibility of the general contractor.

## 1.6 ACCEPTABLE MANUFACTURERS

The following manufacturers are acceptable if the product bid meets the criteria outlined in the specifications and detailed on the drawings. All others must submit to the architect for approval, no less than 10 days prior to the bidding, sufficient information to show that their product will meet the intent of the specifications: PANELFOLD, INC.

## PART 2 PRODUCTS

2.1 OPERABLE WALLS shall be manufactured by Panelfold, Inc., Miami, Florida, U.S.A. and installed by an authorized representative of the manufacturer in openings prepared by others to Moduflex® Series 600 requirements.

2.2 OPERATION shall consist of a series of manually or electrically operated flat panels, top supported. Top and bottom seals shall be as specified in paragraph 2.8.

2.3 PANEL CONFIGURATION shall be as follows for areas indicated on the plans:

MODEL 620 shall be comprised of panels hinged in pairs and center stacking (located in room(s)). Final closure shall be effected by (specify: single or bi-fold panels; expandable panels; or jamb-hinged communicating panels).

2.4 PANELS shall be 4" (102mm) thick and nominally 49" (1245mm) wide. Panel faces shall be laminated to metal frames. Panels shall have appropriate internal insulation to achieve specified STC. The tops of the panels shall be reinforced to support suspension components. The vertical edges of the panels shall not require trim thus minimizing the appearance of the vertical joining of the Sheer-Look® panels.

2.5 PANELS shall be factory surfaced with one of the following (colors to be selected from manufacturer's standards):

2.5.1 Manufacturer's standard vinyl, Class "A" flame spread (specify: Type I; or Type II).

2.5.2 Manufacturer's standard Ribtex® vertical-rib wall carpeting, Class "A", latex backed.

2.5.3 Manufacturer's Woventex® panel fabric, Class "A", acrylic/latex backed.

2.5.4 Maharam Tekwall® 1000® panel fabric, Class "A", acrylic backed.

2.2.5 Genuine unfinished wood veneer shall be (specify: White Ash, Red Oak, Natural Birch, American Walnut or other species as specified).

2.2.6 High pressure plastic laminate, vertical grade.

2.5.7 Customer's Own Material to be factory applied (subject to approval by the manufacturer for suitability to standard manufacturing processes and equipment).

2.5.8 Unsurfaced panel skins for field finishing by others.

2.6 HANGING WEIGHT of panels shall not exceed 10 lbs./ft.<sup>2</sup> (48.8Kg/m<sup>2</sup>).

2.7 ACOUSTICAL RATING of panels as tested by an independent acoustical laboratory in accordance with ASTM E90-85 test procedures in a full scale 14'0" (4267mm) by 9'3" (2819mm) opening shall be (specify: STC 50; STC 47; or STC 45).

2.8 SOUND SEALS shall be as follows:

2.8.1. Vertical seals between panels shall consist of deep nesting, universal interlocking ESP bronze steel

astragals incorporating continuous vinyl acoustical seals. Vertical astragal vinyl seals shall be installed on the outboard edges of the panel skins in a double row with an acoustical labyrinth.

2.8.2 Horizontal TOP seals shall be (specify: continuous contact extruded vinyl shapes; or clearance-type, manually actuated; or clearance type, automatically actuated).

2.8.3 Horizontal BOTTOM seals shall be (specify: 1-2" (38mm) clearance type automatically actuated; or 1-2" (38mm) manually actuated at waist height on panel edges).

2.9 SUSPENSION SYSTEM shall be:

Heavy duty Type 7/8 aluminum track. Track shall be supported by adjustable steel hanger rods; or by direct mount. Panels shall be supported by trolley assemblies of radial type steel or carbon fiber fill tired, steel ball-bearing wheels. Trolleys shall be attached to the panels with adjustable steel pendant bolts with locks to prevent panel misalignment.

2.10 PANELS shall be hinged with manufacturer's standard butt-type hinges.

2.11 POCKET DOORS where indicated on the plans shall be manufactured of the same materials as the panels. Hinges shall be standard butt-type.

## 2.12 OPTIONS SPECIFICATIONS

2.12.1 SINGLE PASS DOORS where indicated shall be nominally (specify: 3'0" (914); or 2'8" (813)) wide by (specify: 6'8" (2032); or 7'0" (2134)) high. Doors shall be manufactured of the same materials and thickness as the panels and be equipped with butt-type hinges and positive latches with drop cup and ring pulls. Options: deadbolt locks; self-illuminated exit signs; hydraulic door closers; A.D.A. compliant friction roller latch with flush pulls.

2.12.2 TACKBOARDS where indicated shall be nominally (specify: 48" (1219) high; or full panel height). Tackboards shall consist of 4" (6) cork surfaced with minimum 30oz per lineal yard Type II Fabrictex vinyl fabric (color to be selected from manufacturer's standards) and bronze trimmed.

2.12.3 CHALKBOARDS where indicated shall be nominally (specify 48" (1219) high; or full panel height). Chalkboards shall be chalkable porcelain enameled steel (color to be selected from manufacturer's standards) and bronze trimmed.

2.12.4 MARKERBOARDS where indicated shall be nominally (specify 48" (1219) high; or full panel height) and be of suitable non-porous surfaced porcelain enameled steel for application of write-on, wipe-off marker pens. Color of markerboards to be selected from manufacturer's standards and bronze trimmed.

2.12.5 RECESSED TRAY for storing chalk or marking pens and erasers shall be installed where indicated and shall be bronze color.

## PART 3 EXECUTION

### 3.1 EXECUTION

Before installation is commenced, inspect the opening. Surfaces shall be clean and dry. Concrete surfaces shall be free of excess mortar and lumps. Wood surfaces shall be well nailed and/or glued, nailed heads driven flush, and wood free of voids. Metal surfaces shall be free of grease, oil, dirt, rust, corrosion and welding slag, without sharp edges.

3.1.1 Verify that rough opening is correct and has been prepared by others to conform to ASTM E557-93 Standard.

### 3.2 PREPARATION

Open containers and verify that all required parts are available and undamaged before disposing of containers. Arrange materials in proper sequence to conform to manufacturer's information and installation instructions.

### 3.3 INSTALLATION

3.3.1 Installer shall conform to the manufacturer's installation instruction sheets.

3.3.2 Apply perimeter caulking and trim as required.

3.3.3 Adjust locking hardware for accurate fit.

### 3.4 CLEANING

3.4.1 Clean all wood, vinyl, wall carpet, panel fabric and plastic laminate surfaces to remove soil without using abrasive cleaners or solutions containing corrosive solvents.

3.4.2 Remove debris from worksite.

### 3.5 DEMONSTRATION

3.5.1 After all adjustments, lubrications and clean up, the installer shall demonstrate and instruct the proper operation, function and maintenance procedures for the walls.

3.5.2 Deliver all keys, operation and maintenance manuals to the owner.